Department of Education
Region III
**DIVISION OF ANGELES CITY**
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October 6, 2017

DIVISION MEMORANDUM
No. 370 S. 2017

RELEASED
OCT 06 2017
By
DepED Angeles City
Division of City Schools

To: Elementary and Secondary School Heads/OICs
Education Program Supervisors
Public Schools District Supervisors

From: Office of the Schools Division Superintendent

Subject: 2017 Division Mathematics Festival of Talents

Date: October 13, 2017

1. The 2017 Division Mathematics Festival of Talents will be held at the Clemente N. Dayrit Elementary School ( CLEMENDES), Angeles City on October 13, 2017.

2. The Festival aims to :

   a. provide students the opportunity to hasten their problem solving skills on the different contents in mathematics;
   b. develop teachers creativity in constructing improvised teaching and learning materials;
   c. develop critical and analytical thinking;
   d. produce mathematically inclined students who will represent the Division in the Regional Mathematics Competition; and
   e. instill the values of camaraderie, teamwork, creativity and love.

3. The contest- categories are Math Quiz, Sudoku, Math Trail, Rubik's Cube for students, and SIM for teachers.
4. Participants to this festival are the contestants of each category, coaches and in-charged of the different events.
5. Travel expenses, meals, snacks for participants, coaches, shall be charged to the School MOOE / Local Funds subject to the usual accounting and auditing rules and regulations.
6. Attached are the different contest mechanics.
7. Immediate dissemination of this Memorandum is desired.

**LEILANI S. CUNANAN, CESO VI**
Officer-In-Charge
Office of the Schools Division Superintendent

## Mechanics

Math Trail

1. All four members (1 per grade level) of the team must be in their classified school uniform and must wear their IDs at all time for easy identification. Only ballpen or sign pen is allowed to be used in solving all the contest problems.
2. Borrowing or lending of calculators between or among teams is strictly prohibited and is a ground for automatic disqualification.
3. Coaches or teachers are not allowed to enter the contest area so as not to disrupt the conduct of the contest.
4. Bringing or using of mobile phone, MP3/4, Ipod or any gadgets for that matter is not allowed during the competition. Each team is required to bring measuring devices.
5. The competition is composed of 7 checkpoints or stops, that is, stations containing different data or important information needed to answer a particular problem. Every team must get whatever data/ information that each station may provide or suggest.
6. The competition is good for one and half hour, inclusive of the gathering data and answering of the contest problems.
7. Initially, all teams will be assigned to go to a designated checkpoint/stop, after which the teams can freely proceed to any checkpoints of their preference to gather data/information.
8. Every team must read the instructions carefully about what ought to be done in every checkpoint. After gathering all the available or needed data from the 7 stations/checkpoints, the team must proceed to the problem solving area and get the contest problems and the answer sheets from the proctor. Look for an available area in this problem solving area and solve the problems using the data gathered.
9. Each team is allowed to stay in every checkpoint for only five (5) minutes to gather the data and other pertinent information. The designated proctor will announce the starting and ending time for the team to be in a particular station. Staying in a checkpoint more than the allowed time will mean points against the overstayed team.
10. There should be no more than three (3) teams allowed to be in one checkpoint and there should be no two teams to crowd in one contest material to gather data/information. In the event a team has finished gathering data before the allotted time, then it can go to another vacant checkpoint. If no checkpoint is available then the said team has to wait until the any team leaves or moves out from the checkpoint.
11. No member of the team is allowed to mark, erase, deface, tear, crease, add or alter any figures, arrangements, lines, positions of any materials placed for the purpose of measurement. Any member of the team who is caught violating this rule means disqualification of the whole team.
12. In any event a situation arises not covered by any rules or mechanics of this contest, it will be referred to the members of Contest Committee for their judgment and pronouncement. The decision of the Board of Judges is final.

Attachment No. 2

## Rubik's Cube

Rubik's cube is a toy in the shape of a cube with nine squares on each side, each side with different color. The game is to mix up the colors then put them back in order. The puzzle is considered solved when each face of the cube shows a solid color.

Rubik's cube is a mechanical puzzle invented by a Hungarian sculptor and professor of architecture ERNO RUBIK. Originally called the Magic Cube by its inventor, this puzzle was renamed Rubik's Cube by Ideal Toys in 1980 and won special award for Best Puzzle.

General Mechanics

1. Registered contestants are required to bring a 3x3 regular Rubik's Cube during the competition.
2. There will be separate set of winners for each grade level.
3. The top 3 contestants from each grade level will be recognized as winners.

Contest Proper

1. The Rubik's Cube competition has three (3) level rounds.
2. In each round, contestants are given 15 seconds to inspect the Rubik's of the other participant.
3. For Round 1, the contestants will solve one (1) Rubik's Cube puzzle rearranged by the opponent.
4. The time starts immediately after the contest administrator announces the "GO" signal. The time stops when the contestant had completely solved the puzzle (it is said to be solved after putting it back in proper order, each face will have only one color) and had raised their hands. The participant who finish assembling the Rubik's Cube should tap the watch to record the amount of time he/she consumed.
5. An official timer will be assigned to monitor each contestant's speed in solving the Rubik's Cube puzzle.
6. The time of each contestant will be recorded. All the contestants will be ranked according to least time consumed.
7. In Round 2, the contestants will solve two (2) Rubik's Cube. In this round, the contestants will be given the chance to rearrange the cubes of their competitors. (Ex. The 2nd qualifier will rearrange the Rubik's cubes to be solved by the 1st qualifier, the 3rd qualifier will rearrange the Rubik's cubes to be solved by the 2nd qualifier and so on..) The time consumed by each contestant in solving the Rubik's Cube puzzle will be recorded. Contestants will be ranked according to the amount of time they consumed.
8. In the FINAL Round, the contestants will be using three (3) Rubik's Cube. One by one, they will solve the cubes rearranged by the opponent. They will be ranked according to least time consumed. The TOP THREE (3) contestants will be recognized as WINNERS – 1st, 2nd, 3rd Placers.
9. In any round, if at least one part of the cube used by any contestant will be displaced from the cube accidentally, the contestant will still be allowed to fix and continue solving the puzzle, given that his time will also continue. However, the contestant is no longer allowed to continue if he/she happened to place down the Rubik's cube before the puzzle was solved.
10. For any reason, the contestants will be allowed to perform corner twists but not in a successive manner.
11. In case of a tie, the contestants will solve one (1) Rubik's Cube puzzle rearranged by the facilitators. The fastest Rubik's Cube solver prevails.

Attachment No. 3

## Strategic Intervention Materials

DIRECTION: Rate the materials 1-5 in the blanks provided, with 5 as a high score

5– Outstanding
4– Very Satisfactory
3 – Satisfactory
2 – Less Satisfactory
1 – Unsatisfactory

CONTENT

____Aligns with curriculum and standards, and is current, valid and reliable, with real-world examples

____Is age appropriate and is designed to meet the needs of individual learners from various skills levels

____Is in-depth and enhances conceptual understanding and engages higher order of thinking skills

____Is free from bias

____Promotes manipulation of data and digital information, and encourages personal responsibility for learning

EQUITY AND ACCESSIBILITY

____Materials are durable, easily stored, transported and are universally accessible

____Materials are easily updated and are adaptable and customizable to match the resources of the school

____Materials work properly without purchase of additional components

____Materials can be used by all students without extensive supervision or special assistance

____Materials meet the requirements of federal and state laws and accepted technical standards

ASSESSMENT

____There is an observable performance that is relevant to real world experience and that can be used to measure student engagement

____Assessment methods are appropriate and suited to the learning objectives

____Assessment is suited to goals and student ability and easily assesses what has been learned

____The materials keep an on-going record of students' progress and allows the teacher full access to individual student monitoring of activities, assignments, assessments, and grades

____There are pre and post assessments, and positive, meaningful feedback and prescriptive guides for remediation are provided

ORGANIZATION AND PRESENTATION

____Content and directions are clear and understandable and distinguish between important and trivial information

____Materials are easy to navigate through

____Requirements for the instructors are clearly stated

____There are provisions for the practice of old and new skills, and for students to enter and exit materials easily

____Materials are interactive and provide high quality sensory experiences for all users

INSTRUCTIONAL DESIGN AND SUPPORT

____The delivery method is used appropriately and successfully engages the student

____Technical procedures, such as installation and setup are easy and error free

____Technical specifications and limitations are adequately described and noted

____Adequate professional development is provided, with reasonable time and numerous opportunities

____Assistance is readily available at any point in the website and many supplemental resources are available

____TOTAL SCORE

## Sudoku

1. The Sudoku contest is composed of three (3) rounds. The participants are given 30 minutes each round to answer 3 puzzles which come in different variants.

   The puzzles may come from any of the following: Standard, Killer, Easy as ABC, Diagonal, Frame, Even, Addoku, Outside, Wordoku, Center Dot, Consecutive, Irregular, Sudoku 3 Mixed, Shujiken, Odd, Tricky Tridoku, Number Crunching, Triple Multi Loco, and Samurai Variations.

2. The points per puzzle is 1 to 9 points each depending on the level of difficulty and bonus points shall be computed and considered at the end of the three rounds. Any puzzler in any category who finishes answering correctly all the puzzles before the allotted time get corresponding bonus points.

3. In determining the top scorers of each grade level, the sum of the scores in every round of each participant shall be added and ranked accordingly. ONLY the participant from grades 1 to 10 with the total HIGHEST points shall represent the Division in the Regional Finals.

4. In case of a tie, the technical committee will provide a fair and just scheme to break it.

5. The technical committee reserves the right to change or improve any part of the mechanics of the contest without prior notice to the participants for as long as the change/s will not affect the purpose or objective of the contest.

6. In the event a situation arises not covered by any rules or mechanics of this contest, the members of the Technical Committee shall determine the final judgment and pronouncement.

7. The decision of the Board of Judges is final and irrevocable.

**Math Quiz**

1. The test is administered simultaneously otherwise done in parallel depending on the availability of rooms
2. The participants on this contest are grades 1 – 10 who won the over-all champion in the division elimination.
3. This test is composed of 25 items to assess the word problems solving skills of the students.
4. One hour is allocated for each test
5. Writing the correct answer shall be the basis of giving points
   Easy = 1 point
   Average = 3 point
   Difficult = 5 point

# Mathematics Festival of Talents 2017

October 13, 2017, 7:00 am
Dr. Clemente N. Dayrit Sr. Elementary School

## Schedule of Events

| Time | Activity | Venue | Person/s In-charge |
|---|---|---|---|
| 7:00 am – 8:00 am | Registration | Covered Court | CLEMENDES Teachers |
| 8:00 am – 9:00 am | Opening Program | Covered Court | West District Coordinator |
| 9:00 am – 9:30 am | Briefing for Proctors and Distribution of Materials | Covered Court | EPS-Math/District Coordinators |
| 9:30 am – 12:00 nn | Contest Proper | | |
| | Math Quiz | Gr. 1-3 – BLSB Building<br>Gr. 4-6 – ESF Building, 1st floor<br>Gr. 7-10 - ESF Building, 2nd floor | Chairman: Ms. Trimie Lacsina<br>Members:<br>Leonida B. Ramos<br>Caryl Lissette A. Reyes |
| | SODOKU | Elem-USAID Building, 2nd Floor<br>HS – ESF Building, 2nd Floor | Chairman: Ms. Jenny De Lena<br>Members: Jocelyn M. Icmat<br>Arcely L. Sabandal |
| | RUBIKS | Elem– USAID Building, 2nd Floor<br>HS – ESF Building, 2nd Floor | Chairman: Ms. Thess Ubaldo<br>Members: Sarah D. Ramos<br>Maryann C. Anastacio |
| | SIM | School Learning Resource Center | Chairman: Normita B. Pineda<br>Members: Carmela B. Dimacali |
| 1:00 pm – 3:00 pm | Awarding of Winners | Covered Court | Ms. Esperanza Malang, EPS-Math/District Coordinators |

## PROGRAM

I. National Anthem: SRES Angklung
II. DOXOLOGY: CLEMENDES Indayog ng Kalikasan
III. DepEd Angeles Hymn: SRES Angklung
IV: Welcome Remarks: Nenita H. Jorquia, Principal II, CLEMENDES
V. Opening Remarks: Ma. Esperanza S. Malang, EPS I in Mathematics
VI. Inspirational Message: Leilanie S. Cunanan, CESO VI
Officer-in-charge
Office of the Schools Division Superintendent
VII. Intermission: CLEMENDES Indayog ng Kalikasan
VIII. Presentation of Participants: Marites Ubaldo
West District Math Coordinator
IX. Intermission Number: ACSCI Performing Arts
X. Activity and Contest Venues: Normita B. Pineda
North District Math Coordinator
XI. Contest Proper
XII. Intermission: AC Senior High School-Math Hataw
XI. Awarding

Master of Ceremonies: Ma. Theresa N. Reyes

## ELEMENTARY

WORKING COMMITTEES

Chairman : Normita B. Pineda (North)
Program and Invitation: Marites Ubaldo (West)
Certificates and Medals: Jenny S. De Lena (South)
Physical, Food and Token for Visitors: CLEMENDES (North)
Registration and Documentation: Trimie Lacsina (East)

**PROCTORS** (4 for each contest room, 1 from each District)

### Math Quiz

| Grade Level | North | East | West | South |
|---|---|---|---|---|
| 1 | Julieta G. Dela Cruz - VDRES | GLORIA D. LACSINA - PULUNGBULU ES | ALDRIN S. RAFAEL | Princess R. Fernandez |
| 1 | Melinda Buenaventura-SALES | MARIA LUISA P. GARCIA - PINEDA-GUTIERREZ ES | GENER PASCUAL | Jacqueline Baustista |
| 2 | Maribeth Rivera – ERES | MARLYN M. SANCHEZ - NORTHVILLE 15 IS | LESLIE MENDDOZA | Jhelene A. Suarez |
| 2 | Rachelle Panlaqui – MBES | RACHEL T. ALIMURONG - MINING ES | MARITES L. UBALDO | Anna Lyn P. Tulio |
| 3 | Rose Joy Diaz – SMES | JENALYN S. MESINA - JOSE P. DIZON ES | | Katherine Anne Duenas |
| 3 | Mary Grace Lacsina – SPES | BEVERLIZA RAMOS - G.R.L. LAZATIN IS | LORENA MALLARI | Maria Cyril Melody H. Layug |
| 4 | Laarne F. Andes – SPES | RICHA G. MANZON - ENRICA SANDICO ES | SHEILE ROSE G. CLAUNA | Victonette Nunag |
| 4 | Maricel Y. Espinola – ERES | MARICRIS M. GAPAL - DON AMBROCIO MENDIOLA ES | NATIVIDAD M. GOMEZ | Aimee Berana |
| 5 | Ralph Matthew Mercado- PCES | GEMMA M. PAGARIGAN - CUTUD ES | RUTYARD PRESTER D. MENDEZ | Mary Ann Valencia |
| 5 | Roselle Panlilio - TPTES | JOAN M. MANALANG - BELEN HOMESITE ES | AILEEN A. NARCISO | Ma. Fatima Masin |
| 6 | Rhey Lopez - MBES | LORNA P. VERRY -AES | DAISY R. DIMABUYU | Arcelie L. Sabandal |
| 6 | Catherine Guzman - CLEMENDES | CARYL LISSETTE A. REYES - ABELARDO G. TINIO ES | LUZVIMIN B. LOPEZ | Jomarie L. Sarmiento |

## SUDOKU

| ROOM | North | East | West | South |
|---|---|---|---|---|
| 1 | **Edithaldine Dizon - PCES** | ROSARIO C. MALLARI - AES | **MABELLE L. HIZOLE** | **Gazelle R. Galola** |
| 2 | **Eduardo David – VDRES** | MA. SUZETTE S. MALIG - AES | **LORENA MALLARI** | **Neil M. Lansangan** |
| 3 | **Marites Tan – SALES** | NENITA GUTIERREZ - AES | | **Meiller C. Sotto** |

## RUBIKS

| ROOM | North | East | West | South |
|---|---|---|---|---|
| 1 | **Mary Jane David - SMES** | **ARLEEN D. JOVEN-** SAN IGNACIO ES | **EMERITA M. BACULI** | **Rosemarie L. Santos** |
| 2 | **Jaybee Basilio - TPTES** | **EMILY G. TAMAYO** - SAPALIBUTAD ES | **NATIVIDAD M. GOMEZ** | **Kurt Josef Mantes** |
| 3 | **Sander Dancel - CLEMENDES** | **ROSELLE H. PASCUAL** -STO. DOMINGO ES | **DAISY R. DIMABUYO** | **Larry L. Miranda** |

**MATHEMATICS FESTIVAL OF TALENTS 2017 COMMITTEE (HIGH SCHOOL )**

| Chairman | Jeferson D. Karagdag | | | |
|---|---|---|---|---|
| EVENT | GRADE LEVEL | SCHOOL | NUMBER OF TEACHER IN CHARGE | NAME OF TEACHER |
| **MATH QUIZBEE** | GRADE 7 | FGMNHS | 2 | Diezer Nerwin Demaano and Maria lourdes Reyes |
| | | ACNHS | 2 | Benmar Mariano and Lovelyn Bautista |
| | GRADE 8 | SBNHS | 2 | Fedemyr O. Morales and Laurence C. Dela Rosa |
| | | ICT | 2 | Camille David at Renan James A. Galang |
| | GRADE 9 | ACSCI | 2 | John A. Cayanan and Mylene G. Balagtas |
| | | ACNTS | 2 | Armina G. Panlilio and Mr. Ruben V. Resultay |
| | GRADE 10 | GRLLIS | 2 | Edward David and Jesson Ete |
| | | BVRHS | 2 | Krislene Ida N. Mercado and Jovita L Catacutan |
| **SODOKU** | 1 REPRESENTATIVE PER SCHOOL | SCHOOL IN CHARGE | NUMBER OF TEACHER IN CHARGE | NAME OF TEACHER |
| COMMITTEE | | | | |
| TIMER/ RECORDER | | MIS | 1 | . Kristine Abigail P. Quero |
| FACILITATOR | | ACNHS | 1 | Karen Patawaran |
| CHECKER | | AIS | 1 | Juliela Bynun |

| RUBIK'S CUBE | PARTICIPANTS | NUMBER OF TEACHER IN CHARGE | NAME OF TEACHER |
|---|---|---|---|
| 1 | FGMNHS | 1 | Joana Bautista |
| 2 | ACNHS | 1 | William David |
| 3 | ACNTS | 1 | Emily Y. Tula |
| 4 | ACSCI | 1 | Karen Kristine Henso |
| 5 | AIS | 1 | Juliela Bynun |
| 6 | BVRHS | 1 | Dan-Gil S. Sanchez |
| 7 | GRLLIS | 1 | Anne David |
| 8 | ICT | 1 | Liezel M. Pineda |
| 9 | MIS | 1 | Ardy D. Patawaran |
| 10 | NORTHVILLE15 | 1 | Mary Grace L. Dizon |
| 11 | RLLMHS EXTENSION | 1 | April M. Laquian |
| 12 | RLLMHS MAIN | 1 | Arthur E. Oximina |
| 13 | SBNHS | 1 | Dianalyn C. Tubiera |
| | ONE REPRESENTATIVE PER SCHOOL | | |

| | | | |
|---|---|---|---|
| MATH TRAIL | PARTICIPANTS | COMMITTEE | NAME OF TEACHER |
| | 1 REPRESENTATIVE PER GRADE LEVEL | SHS TEACHERS (CHAIRMAN) | Vilma Blanca Panela & Cristian F. David |
| SIM | PARTICIPANTS | FACILITATORS | NAME OF TEACHER |
| | 1 REPRESENTATIVE PER SCHOOL | | Rean L. Dungo & Frelyn C. Lozada |